

Abstract

A hydronic heating system that includes a liquid-filled conduit and a combustion chamber enclosure having a plurality of panels that define a combustion chamber for the combustion of fuel to generate heat. At least one of the panels and a
5 portion of the liquid-filled conduits are integrally formed together. The at least one panel absorbs heat generated in the combustion chamber and transfers the absorbed heat to the liquid in the conduit. The heated liquid may be transferred to a remote location where the heat is removed from the liquid using a heat exchanger. The at least one panel and the portion of the liquid-filled conduit may be integrally formed using a moldable material
10 such as a ceramic fiber and a binder, and molded using such processes as compression molding or vacuum molding. The use of moldable may reduce condensation in or around the combustion chamber enclosure.